	Application No.	Applicant(s)
Notice of Allowability	09/719,978	BALL, STEVEN
	Examiner	Art Unit
	Russell Kallis	1638
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate comm GHTS. This application is a	n this application. If not included unication will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>amendment filed 4/30</u>	<u>/2004</u> .	
2. The allowed claim(s) is/are 26-32 (renumbered 1-7).		
3. \boxtimes The drawings filed on <u>18 December 2000</u> are accepted by	the Examiner.	
 4. Acknowledgment is made of a claim for foreign priority una a) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Popies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" on the other priority documents have International Bureau (PCT Rule 17.2(a)). * THREE-MONTH PERIOD IS NOT EXTENDABLE. 	been received. been received in Application cuments have been received	on No d in this national stage application from the
5. A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give		
 6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/06 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ⊠ Interview S Paper No./ 3), 7. ⊠ Examiner's	formal Patent Application (PTO-152) ummary (PTO-413), Mail Date <u>6/21/2004</u> . Amendment/Comment Statement of Reasons for Allowance

Application/Control Number: 09/719,978

Art Unit: 1638

EXAMINER'S AMENDMENT

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4/30/2004 has been entered.

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Philip DuBois on 6/21/2004.

The application has been amended as follows:

In the claims:

Claim 26 (currently amended). An isolated nucleic acid comprising a nucleotide sequence [selected from the group consisting] of sequence SEQ ID NO: 1 [and a fragment of this sequence] encoding a protein having α-1,4 glucanotransferase enzymatic activity.

In Claim 28, line 2, delete "a" and insert --the--.

In Claim 29, line 2, delete "a" and insert --the--.

Art Unit: 1638

Claim 31 (currently amended). A plant, or part of a plant, comprising the cloning and/or expression vector of claim 28, in which the level of expression of an α-1,4 glucanotransferase enzyme encoded by the nucleotide sequence [as defined in claim 26] of SEQ ID NO: 1 is increased in the cells of said plant so that said plant produces a modified starch comprising an amylopectin that is enriched in chains containing at least 9 glucose residues, with respect to a starch produced naturally by the plant.

Reasons for Allowance

The following is an examiner's statement of reasons for allowance: Claims 26-32 are deemed free of the prior art given the failure of the prior art to teach or reasonably suggest an isolated nucleic acid of SEQ ID NO: 1 encoding a protein having α -1,4 glucanotransferase enzymatic activity; a method of modifying a starch produced in a plant by transformation with SEQ ID NO: 1 wherein the starch of the transformed plant comprises an amylopectin enriched in chains containing at least 9 glucose residues and the transformed plant thereof wherein levels of α -1,4 glucanotransferase enzyme are increased.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 09/719,978

Art Unit: 1638

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Russell Kallis whose telephone number is (571) 272-0798. The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amy Nelson can be reached on (571) 272-0804. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Russell Kallis Ph.D. June 24, 2004

DAVID T. FOX
PRIMARY EXAMINER

Page 4

GROUP 1880 (C